

**METHOD AND SYSTEM FOR DIGITALLY
DECODING AN MTS SIGNAL**

ABSTRACT

[0032] A method and system is disclosed for digitally demodulating an analog signal. In one example, the analog signal contains a L+R signal, a L-R signal centered around a carrier signal, and a pilot signal. An exemplary system for digitally demodulating such a signal includes an analog to digital converter, three digital filters, clock reconstitution circuitry, L-R signal recovery circuitry, and channel recovery circuitry. The analog to digital converter converts the analog signal into a digital signal. The three filters separate the L+R signal, the pilot signal, and the L-R signal from the digital signal. The clock reconstitution circuitry reconstitutes a clock signal from the separated pilot signal. The L-R signal recovery circuitry recovers the separated L-R signal using the reconstituted clock signal. The channel recovery circuitry recovers a left channel signal and a right channel signal from the separated L+R signal and the recovered L-R signal.